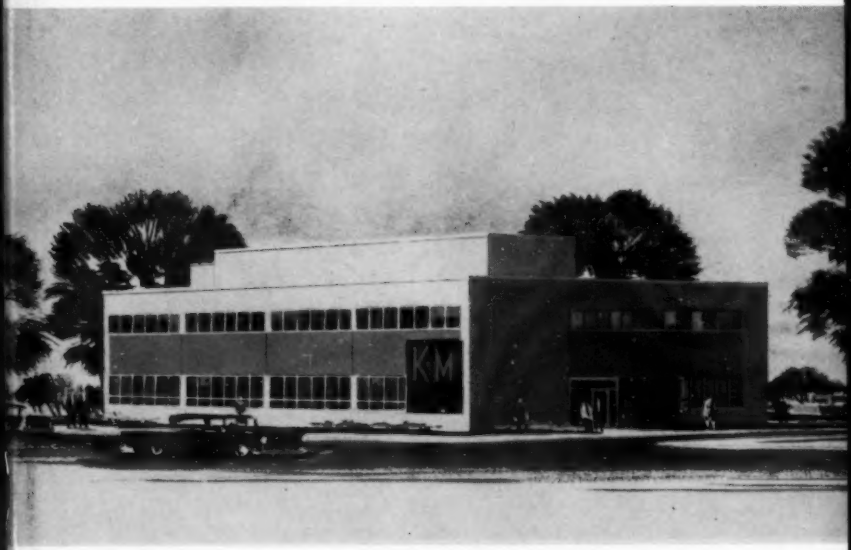
ASBESTOS



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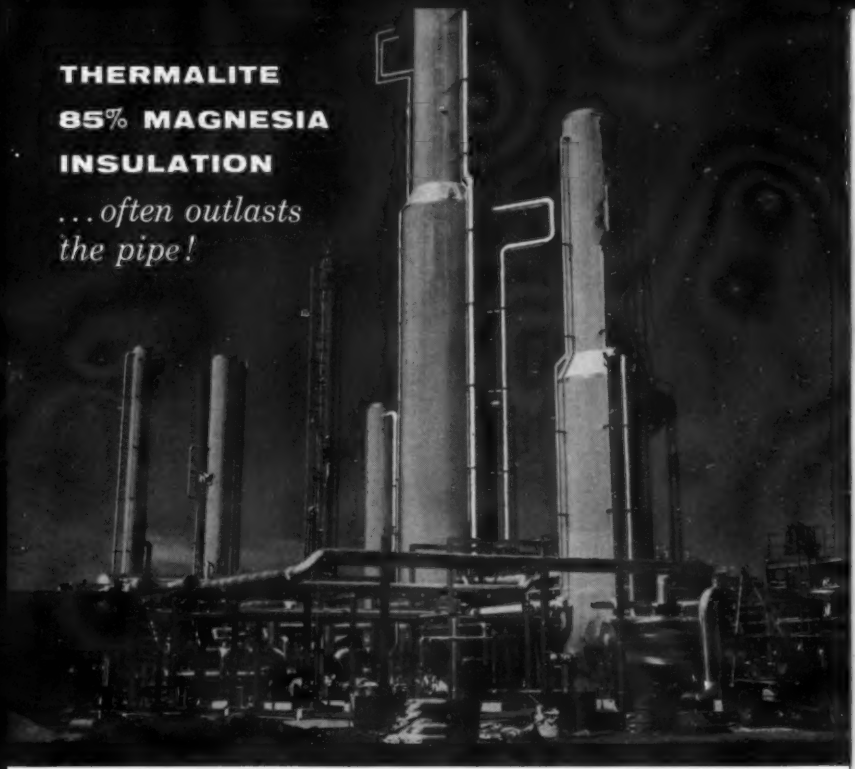

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Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 40 OCTOBER 1958 Number 4

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - $3.00 Per Year
Canada - $4.00 Per Year Foreign Countries - $4.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each

(Payable in U. S. Funds)

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CHRYSOTILE IN CANADA

(An Overall View)

By W. E. Sinclair, M.I.M.M.

That Canada is the greatest producer of chrysotile asbestos in the world is an accepted fact, proved, if proof be necessary, by its production of over a million tons of this valuable commodity annually. The grand scale of this productive effort however, has to be seen to be fully appreciated. It's not a matter so much of "seeing is believing" as realizing at first hand the full significance of the work involved.

As an example, to recover this large quantity of asbestos some twenty-two million tons of rock must be mined and handled, and in addition much of it must be milled. This is the physical aspect but the immensity of the operations is also indicated by the capital involved. Salaries and wages of the workers employed amount to thirty and a half million dollars annually, while the power utilized (electricity and oil) costs over five and a half million dollars. Other necessary supplies used in the course of production amount to over eighteen million dollars. In addition to actual production costs, extra miscellaneous expenditure averages twenty million dollars; this includes equipment, buildings and so on. On top of all this, taxes paid by the industry to Provincial Government and Municipalities amount to nearly twelve million dollars annually. On the other side of the balance sheet, in 1956, to which year these figures refer, the gross selling value of the total production of asbestos recovered amounted to over one hundred and eight million dollars.

The main productive field to account for this valuable contribution to the country's economy and to the asbestos industry at large, is centered mainly in the Quebec Eastern Townships where most of the largest mines are located. However, new fields in Ontario and British Columbia also contribute to the grand total output. A summary of the asbestos produced from the respective

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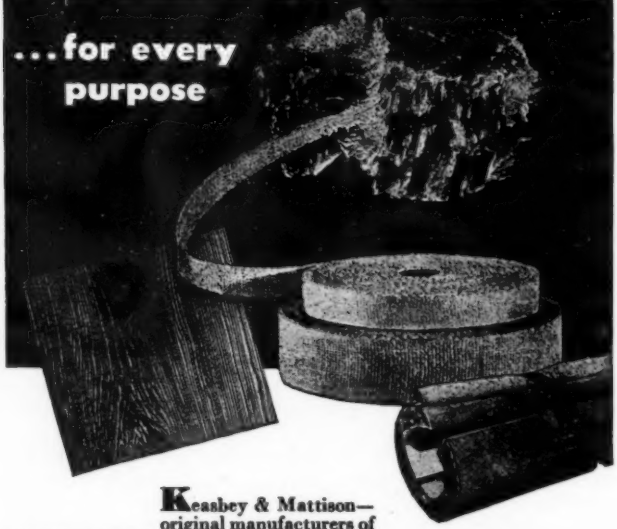

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fields in 1956 is as follows:

	Tons	Value in $
Quebec	989,948	98,760,505
Ontario	27,500	3,850,000
British Columbia	21,527	5,507,000
	1,038,975	108,117,505

Although the contribution from Ontario and British Columbia is comparatively small at present, there is a likelihood of increasing production in the future, and especially from British Columbia. Indeed, in terms of non-ferrous chrysotile, the biggest field and the most important is in British Columbia as is clearly indicated by the high value of the fibre being recovered from the Cassiar Mine. (1)

The operations at this mine are relatively recent and constitute the first productive effort from this field. Notwithstanding the difficult terrain and climatic conditions in the Cordilleran Mountainous Region, these operations would appear to be just the beginning of a new potential field. (Other developments in this region and in Yukon Territory are referred to later.)

In North East Ontario, the second provincial field is located along the Canadian Shield and in the Abitibi Serpentine Belt. Actually, this is not a new producing field since sporadic production has been carried on for some years. The relatively small outputs from a number of workings have probably caused them to pass unnoticed. In recent years, however, the development of the Munro Mine (2), in Beatty Township, has led to an ever increasing output. At present, this mine accounts for practically all the asbestos recovered from this field and these operations, therefore, have drawn attention to the favorable possibilities of economic large scale production.

The output from the Quebec field, in the Asbestos and Thetford Mines areas is clearly indicative of the importance of this region and the vast scale of the productive effort. Here, confidence in the future of chrysotile is epitomised by the tremendous increase in every aspect of mining and milling operations aimed at stepping up production on mines that are already outstanding examples of big scale workings.

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An indication of the magnitude of the existing eleven producing mines today is given in the following list. The mill tonnage capacity shown in each case closely reflects the daily tonnage mined and treated:

Asbestos Corporation Ltd., Thetford Mines, Megantic County

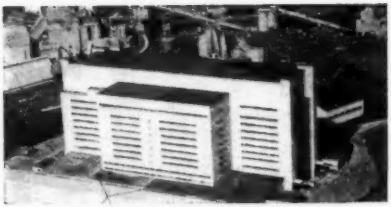
King Mine ..... 3,120 T. mill } to be combined
Beaver Mine ..... 3,120 T. " } with joint new mill

Normandie Mine (Vimy Ridge) 5,000 ton mill

British Canadian Mine (Black Lake) 5,000 ton mill. Bell Asbestos Mines, Ltd., Thetford Mines, 2,000 ton mill; Canadian Johns-Manville Ltd., Richmond County, Jeffrey Mine, 20,000 ton mill; Flintkote Mines Ltd., Thetford Mines, Megantic County, 2,000 ton mill; Johnsons Asbestos Co. Ltd., Megantic County, Black Lake, 4,000 ton mill; Johnsons Company Ltd., Thetford Mines, Megantic County, 2,400 ton mill.

Since 1950, over one hundred million dollars has been spent in capital development on these mines and on several new propositions. In addition to the expansion on producing mines, however, the most interesting outlook for the future is the tremendous constructional development on the new propositions, especially in the Thetford Mines and the Black Lake areas. Indeed, work on these mines is so far advanced that two new producers will shortly add a substantial quota to the output of those listed above. Following these two new mines, three others will reach a producing stage within the next two years. This will bring the total strength of the main Quebec field to sixteen operating mines which, together, it is estimated, will recover one and a half million tons of fibre by 1965.

The five potential mines referred to consist of the following: Carey Canadian Mines Ltd., Broughton Township, Beauce County, 2,000 ton mill; Chibougaman Asbestos Ltd., Roy Township, 2,000 ton mill; Eastern Asbestos Co. Ltd., Notre Dame de la Salette, Papeneau City; Lake Asbestos of Quebec Ltd., Black Lake, Megantic County; National Asbestos Mines Ltd., Thetford Mines, Megantic County.



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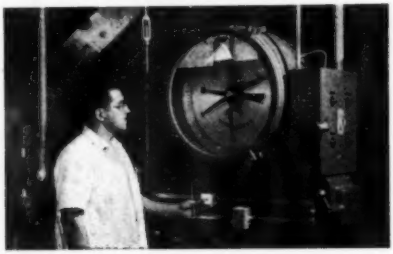

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Notwithstanding these exceptional developments in Canada's principal producing field, it would seem possible that these will be somewhat overshadowed by new discoveries in British Columbia. Cassiar, as already mentioned, is likely to be the forerunner of a rich chrysotile field. Already, exploration of likely geological areas has exposed several promising mineral deposits.

Two of these prospects in British Columbia, (Letain and Rose River) are being investigated and opened up, while two in Yukon Territory (Caley Creek and Clinton) are being developed. As yet, insufficient work has been done to indicate the true economic potential of these deposits, but the outlook is certainly promising.

Exploratory work is also progressing in the Cordilleran Region of Southern British Columbia, where various asbestos bearing formations occur on Sproat Mountain near Revelstoke, and in the Okanagan area. Insufficient work has been done to access the future potential of this region.

Finally, a somewhat limited but hopeful new producing area is visualized as possible in Newfoundland, where exploratory work is proceeding on chrysotile formations. Two companies are investigating the economic possibilities of these deposits. One of these, Advocate Mines Ltd., operating in the Baie Verte area, has now reached the development stage and milling tests already give promise of good economic prospects.

A second company, Newfoundland Asbestos Ltd., working in the Lewis Hills, St. George-au-Port District, would appear to be a prospective producer in the near future following the results obtained from development work carried out on the surface and in adits underground.

This general review of the present and potential source of production would not be complete without a few notes on the various methods of working. To secure the large output of asbestos that is being produced, enormous tonnages of rock must of necessity be excavated and handled, and to do this efficiently it is obvious that the use of modern machines and methods of exploitation form an essential part of the whole.

Although some of the mines have been operating for

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periods ranging from 50 to 70 years, gone are the days when the ore was hauled from open pits by overhead cableways. Even the advanced stage, of some years back, of steam shovels and railroad trucks, has given place to the use of electric shovels up to 6 cu. yd. capacity. Smaller shovels, some diesel powered, used on special work, and bull- and angle-dozers employed on cleaning up scattered ore after blasting to facilitate shovel loading. These machines also maintain road gradients (maximum grade usually 10 per cent) mostly in spiral form pits.

Haulage of the broken ore is generally effected by heavy duty diesel trucks carrying up to 20 tons and more. The flexibility of the operations, starting from the loading to the delivery of the ore to the mill, accounts to a great extent for the effective efficiency in handling tonnages smoothly.

Methods of breaking down the ore in the pit benches appears to be the one phase of open pit operations that has changed little in recent years. Benches, that vary from 30 ft. to 60 ft. in height, are usually drilled along fixed sections with 4 inch diameter down holes (just off vertical) set on about 5 ft. centers. In special circumstances double rows with holes staggered at 15 ft. centers are drilled. Fifty or more holes are blasted together. Where the serpentine rock is hard and tough, and high benches are carried, horizontal toe holes are drilled on the level below. Blasted as "easers", these assist the down holes in making a clean break.

Although drilling methods have not changed materially, the equipment used, like most of the machines in the pits, is highly modernized.

Since the earliest mining started in 1886, it is only to be expected that many of the older pits have reached a stage where the extraction of the ore by open cast methods is now uneconomic. Consequently, a number of mines have adopted underground systems to extract the ore underlying the old open pits.

Of the thirteen major producing mines in all fields, three are recovering their ore wholly from underground operations, while an equal number are presently in a transient stage, that is working both underground and on the

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surface. Seven mines producing entirely from surface pits, accounts for the fact that about two thirds of the total output from all operating mines is recovered from open pits.

The five prospective producers in the Quebec field, previously referred to, will of course join the above mentioned open pit propositions.

In the case of the old established mines, handling large tonnages, the economic limit of surface working is inevitable as time goes on, and indeed underground development is included in future plans of several.

To maintain the economic production of large tonnages by underground exploitation, a system of block caving has, in most cases, been found the most satisfactory method, following fair trials of shrinkage, glory-hole and other means of extraction.

The first real test of block caving was made at the King Mine of the Asbestos Corporation in Thetford Mines. The successful introduction of the system there has been instrumental in others following, although some modification is adapted as conditions demand. The general principle of the system, in which theoretically a block of ground is undercut and allowed to cave and crush and break up from its own weight, is certainly the most economic method of attack in these circumstances, and as a result the process and practical methods evolved have been effectively applied to the economic production of the large tonnages required. Several factors have combined to account for this, first the serpentine formation is amenable to this form of attack. New equipment and the emergence of new modern techniques have assisted in the improvement and modification of every branch of underground operations.

To mention but a few of these newer techniques applied in the auxiliary operations supplementary to the system, the most important is quite certainly the complete elimination of the use of timber in any form. This obviously removes the old bugbear of contamination of the asbestos by wood chips and splinters. Ground support in primary and secondary development openings is effected by steel setting, rock roof bolts or concrete, according to the class of opening and ground conditions. Aluminum

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forms are in general use for placing concrete. As this commodity is used in large quantities, batch mixing underground or in surface plants, from which the concrete is delivered in pipes to the various points where concreting is in progress is general practice. Scraper hoists for mucking ground are used entirely in all slusher drifts in block caving methods.

These points are but sidelights on the marked advance in mining procedure, brought about by modern improved machinery, maximum mechanization in the right place and the best technical skill; all essential factors necessary to cope with deeper mining conditions and the production of large tonnages at relatively low costs.

Treatment methods have kept in step with mining, indeed, modern mill design is probably a step ahead, even though the fundamental basic processes are essentially the same. The handling of enormous tonnages of ore to produce many standard grades of fibre of the highest quality has quite naturally called for improved mechanical systems and processing techniques. The change in modern mill flowsheets consists mainly of altered design in equipment, influenced mainly by the demand for specialized fibre grades. In the layout, however, the flexibility of the plant as a whole, and the maximum mechanization is even more noticeable. The overall result spells smooth operation in the handling of the ore with the minimum of labor.

An outstanding feature in every mill is that dust in the fibre and in the mill itself, is a thing of the past. The main reason to account for this very noticeable advance is that quite apart from the harmful effects to men and to the asbestos produced, the dust has been recognized as a useful commodity in the fabrication of certain products. As a consequence very effective auxiliary devices and elaborate filtering systems extract the dust from each point at which it is formed. Besides the removal of the dust, air conditioning and temperature control is a most important feature of every mill.

Whether or not one has actually visited and seen the tremendous mining operations sketchily described above, the ultimate question that naturally occurs is what happens to all the asbestos recovered by these large under-

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takings.

Strangely enough, only a fraction of the total produced is retained and utilized in the country, the bulk of it is shipped abroad.

In 1956, a total tonnage of 963,921 tons valued at $99,894,847 was exported. An amount of 626,656 tons of this total was shipped to the U.S.A. This was equal to 52 per cent of the value of total asbestos exports.

On an average, about 50,000 tons of the chrysotile produced annually by Canadian mines is handled by local factories. At the present time there are seventeen asbestos factories: eight in Ontario, six in Quebec, two in British Columbia and one in Nova Scotia. A fairly wide and representative range of asbestos products are manufactured, mainly for home consumption. The annual value of these locally manufactured products for 1956 was $30,127,022, consisting principally of engineering products, building materials, and other goods.

(1) Cassiar Asbestos Corp. Ltd., McDame Lake area, N. British Columbia.

(2) Canadian Johns-Manville Ltd., Matheson, Ontario.

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THE COVER

Keasbey & Mattison Company, Ambler, Pa., manufacturers of asbestos, magnesia and asphalt products announced that construction has started on its new modern laboratory facility to house its research and development activities.

Construction of the research center is taking place simultaneously with the erection of the company's new office building, it was revealed by Robert R. Porter, President.

Containing 12,000 square feet, the laboratory will be among the most advanced in the industry. Emphasis in the new building will be on research and development with laboratories devoted to separate product development.

Among the highlights of the new R & D Center will be specialized rooms for thermal conductivity; controlled temperature and relative humidity rooms for simulating a wide variety of climatic and weather conditions. There will also be separate facilities in the new Center devoted to electrical, chemical, mechanical and building product research.

K & M's new R & D Center will also boast of a new products laboratory which will be intimately identified with the company's product expansion.

In appearances the new laboratory will be somewhat similar, architecturally, to the new office building. Completion of the project is expected in mid-summer, 1959.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business conditions continue to improve. Employment, freight car loadings and steel production all continue their upward trend. Many other indices confirm, by their improvement, the fact that the recession is over. Of course there are many specific areas where little or no change for the better has yet been felt. These for the most part are in industries and companies which were the last to feel the recession and it is only normal that they will lag behind in feeling the uptrend in the overall economy.

Many are now starting to worry about inflation and the Federal Reserve Board has already taken steps to restrict credit expansion. Some feel that possibly these steps have been taken too soon and that they may tend to throttle the recovery before it really takes hold. However the general feeling is that inflation is our greatest problem for the near future and that steps to curb it are, at the moment, even more important than steps to combat a recession which appears to have already been licked.

ASBESTOS — RAW MATERIAL

In keeping with the trend which started in July, shipments of asbestos fibre in September have remained at about the same level as August.

The volume for the month, however, will be much below last September, since 1957 shipments were influenced by a pending price increase.

Shipments for October and November are expected to be higher than those of recent months, because of the usual increased activity in the overseas shipments on the eve of the closing of the St. Lawrence River for the winter. Signs of this increased activity are already visible.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. Although the market is somewhat firmer, the anticipated increase in demand after September 1st has failed to materialize. Due to better fibres and continued efforts on the part of the textile manufac-

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turers to improve their equipment and techniques, better quality textiles are being produced.

Asbestos Brake Lining. Replacement orders are still running ahead of last year and at a satisfactory volume. Replacement is still carrying the main portion of sales but equipment ordering is up for the new models. Sales should continue good in replacement and also in equipment providing the public is sold on new models.

Asbestos Paper. Orders continue to come in a little bit more frequently than they did several months ago and the outlook for this business appears to be brighter than it has in some time. Prices for the volume that is available are very competitive. Orders for *Millboard* continue to come in at a slow rate and the market is very competitive. The demand for *Saturated Paper* is still below production. Even though Industrial work has picked up demands are not expected to increase during the last quarter because of weather curtailing roofing work.

Insulation. High Pressure. Orders for this material have increased slightly during the past month. From all indications of orders which have been closed in the past three months, the volume for the remainder of this year should be at least, as good as it has been during the past two or three months.

Insulation. Low Pressure. This market has been slower than at any time during previous years.

Asbestos Cement Products. There has been a strong seasonal improvement in this market.

Order placements for *Roofing & Siding* for September are about 12% higher than for the previous month and are considered normal and seasonal.

The same rate of usage as the last quarter of 1956 is predicted for the rest of this year for *Corrugated & Flat.*

The above comments have been made by various informed executives in the Industry. All comments are welcome.

If the color of asbestos fibre is a problem in your product it is possible that Carey-Canadian Fibre will help you solve it. The lighter color of this fibre, balanced with the other characteristics you look for in formulation, might effect considerable cost saving.

One of the advantages of Carey Fibre has always been its color—particularly noticeable in the 6 and 7 grades. Color comparisons on fibre from the *new* Carey-Canadian mill reveal a clearly perceptible increase in whiteness over that obtained from the older mill.

Send for full information and samples of Carey-Canadian Fibre. Carey technicians are always available to help with grade selection, blends, and other factors which affect your manufacturing operations. The *new* Carey-Canadian mine offers a really reliable source for asbestos fibre, a source you'll find it worthwhile investigating.

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"THE CANADIAN ASBESTOS INDUSTRY"

By E. J. Bonkoff, B.A.

Asbestos, in common with most other industrial raw materials, is being faced with complex marketing problems for the first time since the end of World War II.

A current publication of General Research Associates, "THE CANADIAN ASBESTOS INDUSTRY", provides an up to date and concise account of the industry and an assessment of how current developments may influence its future.

The author, E. J. Bonkoff, B.A., Consulting Economic Geologist, has had a wide experience in the field of industrial minerals. Mr. Bonkoff was formerly Commodity Officer, Industrial Minerals with the Department of Trade and Commerce, Government of Canada, Ottawa, following a number of years of field experience.

This timely report, which should be of interest to all concerned in the industry—producer, consumer and investor alike—covers the development of the Asbestos Industry in Canada, its structure, production, markets, exports, producing companies, and appraises its future prospects. Although the analysis is detailed, it is intended to appeal to layman as well as the expert.

The report covers Canada's foreign market for general bulk shipments of mine asbestos and the domestic market. Both of these are currently in a state of flux, which is not wholly due to the recent recession in the North American economy, but is partly a consequence of the historical development and the inherent structural characteristics of the industry itself.

While the industry is in a much better and sounder financial and operating condition today than at any time in the past, new difficulties and uncertainties are beginning to emerge.

Mr. Bankoff's study should be valuable to those who require guidance in assessing these emerging problems.

Copies may be obtained by writing E. J. Bonkoff, B.A., Economic Geologist General Research Associates, 4 Richmond Street East, Toronto, Canada — 41 pages, 1 Chart, 1 Map, 9 Tables, — $15.50.

More than 4,000 yards of a special aluminized asbestos fabric forms the interior lining of the huge aluminum geodesic dome enclosing the new Casa Manana opera house in Fort Worth, Texas.

It was developed by the textile division of United States Rubber Company, as a fire-resistant, moisture barrier with a decorative aluminum interior surface that is easily cleaned, does not absorb odors and never needs painting, thus cutting maintenance costs. It is installed over three inch-thick fibre insulation.

The building, which was built for the Fort Worth Opera Association, seats 1,750 persons around a stage placed in the center of the interior. The dome of the building was designed and developed by the Kaiser Aluminum and Chemical Co. and is based on a system invented by R. Buckminster Fuller.

Salesmen

Several excellent opportunities available in various locations for young men with some experience in the construction industry. Past experience as estimator, construction superintendent, or salesman, preferably with Mechanical Contractor or Insulation Contractor, is desirable but not required. Large Industrial Insulation Contractor. Local assignment probably available in your area. Permanent salary position. Write giving age, experience, salary, etc., to Box 10A-L, ASBESTOS, 807 Western Saving Fund Building, Philadelphia 7, Pa.

"EVERITE" ASBESTOS-CEMENT SCREW JOINT

"EVERITE" Asbestos-Cement Screw Joint, manufactured by Turners Asbestos Co. Ltd., Trafford Park, Manchester, 17, England, consists of one centre collar of asbestos-cement and two circular glands of the same material as the pipes, accurately machined. The only other components are two rubber rings. The asbestos-cement from which these components are manufactured is of the same tensile strength as the pipes. As the joints may be kept in stock for some considerable time before being put into use the threads of the components are lubricated with graphite before dispatch.

The joints will resist a hydraulic pressure in excess of the ultimate strength of the pipes in the highest class in which they are made in the respective sizes.

When assembling the joints in situ it should be seen that the ends of the pipes are reasonably clean. The joint components should also be clean and for easy assembly it is recommended that a soft soap solution be applied to the threaded portion of the glands, centre collar and rubber rings.

The glands are first placed over the pipe ends. The rubber rings are then rolled on to the ends of the pipes by means of the tapered plug provided ensuring that the rubber rings cover the white line stencilled on the pipe ends. The centre collar is placed over the end of the pipe previously jointed and the gland screwed into the centre collar by hand. Final tightening is by chain grip.

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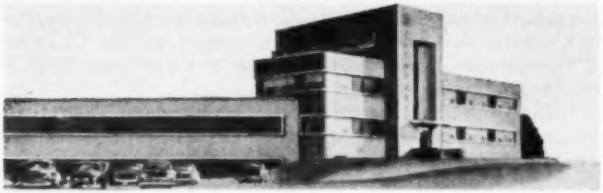

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Appointment of Fred I. Rowe, Partner and General Manager, W. L. Johnson Construction Company and Associates, Columbus, Ohio as Chairman of the Committee on Construction and Civic Development of the Chamber of Commerce of the United States for the year 1958-59 has been announced.

The Construction and Civic Development Committee studies major problems affecting the construction industry and urban development, and presents the business viewpoint on national legislative issues to Congressional Committees and government.

An insulating shingle backer, designed for use with asbestos-cement sidewall shingles is being manufactured by Canadian Johns-Manville Co. at its North Bay, Ontario, plant. The product is 3/8 inch thick, 11-3/4 inches wide and 48 inches long. Installed, it accentuates horizontal shadow lines between courses of shingles and reduces interior heating and cooling costs by its added insulation.

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Inquiries for Details, Quotations and References are welcome.

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BUILDING

August construction contracts in the United States totalled $3,466,576,000, an increase of 23 per cent above the same month of last year, according to F. W. Dodge Corporation.

Large increases occurred in nearly all the major classes of construction, the construction news and marketing firm reported, with the only sizable exception occurring in manufacturing buildings.

According to Dodge vice chairman Thomas S. Holden, the past four months have been the highest ever reported.

Contracts for privately owned projects in August, according to the Dodge figures, were 11 per cent above August, 1957, although declines earlier in the year have kept the total for the eight months to date 3 per cent below the corresponding period of 1957. Public ownership contracts were up 54 per cent in August and 19 per cent for the eight-month period.

Contracts for non-residential buildings in August totalled $1,078,938,000, an increase of 7 per cent over August, 1957.

August residential building contracts amounted to $1,450,576,000, a gain of 13 per cent over the corresponding month of last year. The August contracts covered 113,460 dwelling units, a gain of 17 per cent over the year-ago figure.

Heavy engineering contracts in August were $937,062,000, up 78 per cent from August, 1957.

Totals for the first eight months of 1958, with percentage changes from the corresponding period of last year, are: non-residential, $7,624,337,000, down 4 per cent; residential, $9,500,035,000, up 5 per cent; heavy engineering, $6,674,136,000, up 17 per cent; total construction, $23,798,508,000, up 5 per cent.

HISTORICAL FACTS ON THE ASBESTOS INDUSTRY IN GERMANY

By G. M. Bloomfield

In the August 1958 edition of the magazine "ASBESTOS" cognizance was given to the 75th anniversary of Deutsche Asbestwerke Georgi & Co. In this article it was stated that this company was the first one to manufacture asbestos goods and to spin and weave asbestos fibres imported from Canada. It should be of valuable information to any historian interested in the asbestos industry in Germany, and the asbestos industry at large, that the recognized father of this industry was my grandfather, Louis Wertheim.

Louis Wertheim was born in Rotenburg/Fulda January 10, 1838, coming from a family which traces back their family tree in and around this same town way before 1650. He died in Kassel May 29, 1905 and upon his death trade magazines, like the Gummi Zeitung, carried full page obituaries praising him as the founder of the asbestos industry, which by that time had achieved a prominent place in the European economy.

Louis Wertheim started as a rope winder in Hamburg, supplying primarily the Navy and the Merchant Marine. In 1869 he came across the first asbestos yarns manufactured in England, using them for his production of ropes and twisted packings. In 1871 he moved to Frankfurt/Main where his brother, Josef Wertheim, who had learned as a mechanic with Singer in the United States and had become known as the father of the German sewing machine industry, offered him space for his production of asbestos textiles and millboards. The company, under the name of Asbestwerke Louis Wertheim, was founded and obtained in due course a thriving market for its products.

With the demand for asbestos growing rapidly, Louis Wertheim decided to obtain an independent source of supply for raw asbestos. After a survey of the deposits in Canada a mine was purchased and opened in 1889 known as "The Mine of Black Lake in the County of Megantic and Province of Quebec" and the American Asbestos Company Ltd. was founded with its offices registered at #5 Chapel Walks, in the City of Liverpool. This mine was

operated by this company until early in 1897 when Louis Wertheim disposed of it, relying for future supplies on the services of various asbestos mines and their representatives which in the meantime established themselves in this business.

These facts concerning the two Brothers Wertheim, one as the founder of the German sewing machine industry, and Louis Wertheim as the founder of the asbestos industry in Germany, have been recorded and written up in many works concerning the great men in the industrial and economic life of Germany. However, under the Nazis this has been obliterated and it seem to be proper that today again credit be given where it is due.

When Louis Wertheim retired, his son Max Wertheim took the reins of the company, and being a bachelor, chose me as his eventful successor of the company which, in the meantime, became known as Frankfurter Asbestwerke A.G. (Vormals Louis Wertheim). After Max Wertheim's death in 1934 I succeeded him as General Manager until, forced by the Nazis in 1938, the company changed hands. Thus the proud history of a family identified with the asbestos industry came to an end in Germany.

NEW ENGINEERING DATA ISSUED BY M-SIMA

The Engineering and Research Committee of The Magnesia-Silica Insulation Manufacturers Association has issued new industry data giving typical average values on physical and thermal properties of 85% Magnesia, Calcium Silicate and Diatomaceous Silica insulations. The new data is offered as a basis for engineering calculations on these insulating materials.

85% Magnesia insulation is recommended by the Association for operating temperatures to 600 F, Calcium Silicate to 1200 F, and Diatomaceous Silica of one type, to 1600 F with a second type of the latter product with temperature range up to 1900 F.

With an average density of 12 lb. per cu. ft. Calcium

Silicate insulation has been determined as having a "k" factor ranging from 0.32 at 100 F mean temperature to 0.61 at 700 F mean. A new average density of 11 lb. per cu. ft. has been determined for modern 85% Magnesia, in place of the former 12 lb. average. Diatomaceous Silica insulation, 1900 F type, has an average density of 24 lb. and "k" factor ranging from 0.69 at 400 F mean to 0.78 at 800 F mean. The 1600 F type Diatomaceous Silica has a conductivity of 0.64 at 400 F mean to 0.72 at 800 F mean temperature.

Data on the typical physical and thermal properties for all four products is given in the following table. Individual manufacturers should be consulted for their particular products' properties where more exact data is required.

Typical Physical and Thermal Properties

	85% Magnesia	Calcium Silica	Diatomaceous Silicas	
Service Temperature, F, maximum	600	1200	1600	1900
Density, lb. per cu. ft., average	11	12	22	24
Flexural Strength (Modulus of Rupture) psi, average	45	50	75	70
Compressive Strength, 5% deformation, psi, average	50	60	95	85
Linear Shrinkage after 24 hours, per cent, average				
at 600F	1	—	—	—
1200F	—	1½	—	—
1500F	—	—	1½	—
1900F	—	—	—	2½
Conductivity (Btu in. per hr per sq. ft. per F) average Mean Temp F				
100	0.35	0.32	—	—
200	0.38	0.37	—	—
300	0.42	0.42	—	—
400	0.46	0.46	0.64	0.69
500	—	0.51	0.66	0.71
600	—	0.56	0.68	0.73
700	—	0.61	0.70	0.75
800	—	—	0.72	0.78

ASBESTOS-CEMENT QUARTERLY REVIEW

The above review is being published by the Asbestos-Cement Products Association to help members of the building industry and allied professions keep areast of the rapid developments in Asbestos-Cement products. Sometimes it is forgotten that this material, being one of the newest of the major building products, is also one of the most dynamic. In recent years Asbestos-Cement manufacturers have spent millions of dollars on product research to develop roofing and siding for a full range of residential and industrial needs. In turn architects, engineers, landscapers and interior designers have used the products in dramatic, new ways.

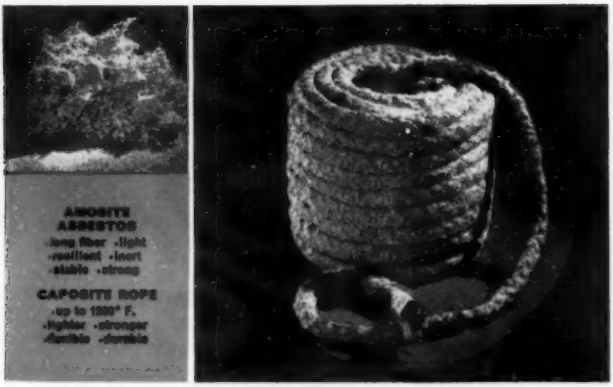
Obviously something was needed to synthesize these efforts, to serve as a clearing house of ideas from the industry on one hand from product users on the other. This publication is in answer to this need. Each issue will feature articles by leading architects, builders and industrial designers as well as by research engineers and other members of the industry. It will feature pictures of outstanding uses of Asbestos-Cement products in both residential and industrial designs.

The Editors of the Review will welcome suggestions to help make this publication better serve its purpose and invite readers who have used Asbestos-Cement products to contribute to future issues.

Copies may be obtained from the Asbestos-Cement Products Association, 509 Madison Ave., New York 22, N. Y.

SELECTED ANNOTATED BIBLIOGRAPHY OF ASBESTOS RESOURCES IN THE UNITED STATES AND CANADA — contains 198 annotated references emphasing the geology, mineralogy, and origin of asbestos resources in the United States and Canada. The entries are crossindexed by geographic areas, gologic and mineralogic terms, and othertopics of interest for research, mining and prospecting. 1958. Catalog No. I19.3:1019-L—25¢.

Copies may be obtained from Superintendent of Documents, United States Government Printing Office, Washington 25, D. C. 25¢.



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Subsidiaries of The Cape Asbestos Co. Ltd., London

Canada
(Department of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for July 1958 (Quebec)	83,167	tons
Other Provinces	4,210	
	87,377	

Total production for July 1957 was 83,089 tons.

Africa (Rhodesia)
(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for May 1958	10,593.59	tons
Valued at	£723,454	
Production for May 1957	10,948.15	tons
Valued at	£749,742	

ASBESTOS TEXTILE INSTITUTE
Election of Officers

The Asbestos Textile Institute held its 1958 annual meeting on September 11 and 12, in New York City. New officers and members of the Board of Governors for the Institute were elected. The officers elected to serve the Institute for the ensuing year are: President—*J. T. Griffis*, Southern Asbestos Company; Vice President—*A. J. Scanlan*, American Asbestos Textile Corporation; Treasurer—*W. S. Hough*, Johns-Manville Corporation; Secretary and Assistant Treasurer—*M. C. Shaw*. The newly elected members of the Board of Governors are: *President Griffis; Vice President Scanlan; Treasurer Hough* and *D. W. Widmayer*, Keasbey & Mattison Company; *J. A. Bettes*, Raybestos-Manhattan, Inc. and *T. C. McCluskey*, Tallman-McCluskey Fabrics Company.

Mr. Griffis is Vice President and General Manager of Southern Asbestos Company, Charlotte, N. C., a subsidiary of Thermoid Company, Trenton, N. J. He has been with Southern Asbestos since 1922, having served in various positions.

The Asbestos Textile Institute is a voluntary, non-profit organization with international membership from the United States, Canada, England and France. It is devoted to the development of standards of research and improvement of quality in the asbestos field and to the cultivation of good will and dissemination of useful information in the field of asbestos textiles.

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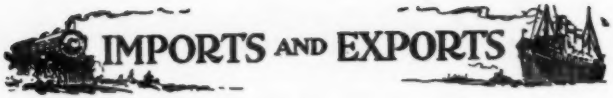

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	April 1958 Tons (2240 lbs.)
From: Canada	35,994
Union of S. Africa	1,664
Australia	432
Rhodesia	324
United Kingdom	50
Oher Countries	134
	38,598
Valued at	$3,839,167

By Grades:

Crude, No. 1, Chrysotile, Rhodesia (Ny)	25
Crude No. 1, Chrysotile, Other Ctys	1
Crude, No. 2, Chrysotile, Canada	18
Crude, Other, Chrysotile, Rhodesia (Ny)	299
Crude, Blue, Australia	432
Crude, Blue, U. of S. Africa	1,085
Crude, Blue, Other Countries	9
Crude, Amosite, U. of S. Africa	579
Textile Fibres, Chrysotile, Canada	1,092
Textile Fibres, Chrysotile, U. Kingdom	50
Textile Fibres, Chrysotile, Other Ctys	60
Shingle Fibres, Chrysotile, Canada	3,696
Paper Fibres, Chrysotile, Canada	2,797
Other Fibres, Chrysotile, Canada	28,391
Other Fibres, Chrysotile, Other Ctys	64
	38,598

Manufactured Asbestos Goods:

	April 1958 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	17,321	$ 12,403
Asbestos Packing	24,903	8,596
Asbestos Shingles (Not Impreg.)		
Belgium	546,122	35,689
Italy	740,691	34,434
Other Countries	147,191	12,961
	1,476,228	$104,083

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UNARCO UNIBESTOS, the Amosite Asbestos Pipe Covering and Block
UNARCO Calcium Silicate Pipe Covering and Block
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UNARCO Turbine Blankets
UNARCO Specially Fabricated Insulations
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Over 30 years of specialization in quality asbestos products

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	June 1958 Tons (2240 lbs.)	Value
To: Europe	55	$ 6,575
Mexico & Central America	18	4,096
United Kingdom	34	3,626
South America	2	2,400
Other Countries	147	30,835
	256	$47,532

Manufactured Asbestos Goods:

		June 1958 Quantity	Value
Asbestos Cement & Pipe Covering	Lbs.	569,564	$ 109,619
Asbestos Textiles & Yarn	Lbs.	58,628	72,247
Asbestos Packing	Lbs.	119,701	177,177
Asbestos Clutch Facings	No.	86,386	67,614
Asb. Bk. Lng. (Mld. & S. Mld.)	Lin. Ft.	119,274	61,771
Asbestos Brake Lining, Other	Lbs.	289,349	268,101
Asbestos Construction Materials	Lbs.	2,641,754	215,573
Asbestos Manufactures—Others		....	45,390
			$1,017,492

Imports of Asbestos by United Kingdom

Raw Materials

Tons 2,240 lbs.

	July 1958
From: Union of South Africa	3,213
Basutoland, Bechuanaland & Swaziland	406
Canada	5,225
Rhodesia & Nyasaland	2,197
Other Commonwealth Countries	206
Foreign Countries	26
	11,273

Union of South Africa

(Quarterly Information Report—Dept. of Mines)

Tons 2,000 lbs.

	1st Quarter (Jan., Feb. and Mar. 1958) Prod. Tons	Local Sales Tons	Value	Exports Tons	Value
Amosite	16,421	598	£17,944	12,895	£ 602,610
Anthophyllite	.....	.....	.....	.....	.....
Chrysotile	6,200	1,046	41,689	3,658	242,004
Cape Blue	15,287	1,210	78,568	10,886	844,720
Transvaal Blue	4,078	153	10,071	2,746	202,176
Tremolite	81	67	1,127	.....	.....
	42,067	3,074	£149,399	30,185	£1,891,510

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St. Stephens, S. C., Cowansville, P.Q.

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	June 1958 Tons (2000 lbs.)	Value
Crude		
United States	11	$ 9,530
United Kingdom	55	73,350
South America	....	.....
Central America & Mexico	....	.....
European Countries	7	6,841
Other Countries	7	6,895
	80	$ 96,616
Milled		
United States	9,908	$1,709,275
United Kingdom	3,171	742,107
South America	1,280	133,813
Central America & Mexico	677	122,052
European Countries	5,730	1,170,999
Other Countries	5,327	948,898
	26,093	$4,927,144
Shorts		
United States	35,422	$1,834,476
United Kingdom	3,525	184,439
South America	612	49,915
Central America & Mexico	175	7,430
European Countries	3,295	176,444
Other Countries	393	31,619
	43,422	$2,284,323
Grand Total—Unmanufactured Asbestos:	69,595	$7,308,083

Manufactured Asbestos Goods:	
Brake Lining	$ 22,877
Packing	....
Other Materials	77,479
	$ 100,356

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

David E. Kelley, President, Kelley Asbestos Products Co., Kansas City, Mo., October 16.

H. P. Hansell, Vice President & General Manager, Dutton Asbestos & Supply Co., San Francisco, Calif., October 16.

William F. Reed, President & Treasurer, Asbestos Distributors Inc., Port Chester, N. Y., October 17.

Walter A. RuKeyser, Consulting Engineer, New York City, N. Y., October 19.

E. J. Buczkowski, Vice President-Production, Keasbey & Mattison Co., Ambler, Pa., October 22.

Albert S. Redway, President, Rockbestos Products Corporation, New Haven, Conn., October 22.

Harry E. Humphreys, Chairman of Board, United States Rubber Co., New York City, October 24.

L. R. Hoff, Consultant, Johns-Manville Corporation, New York City, October 27.

A. L. Wade, President, Asbestos Insulations, Reg'd., Montreal, Canada, October 28.

H. A. Dutton, Jr., President & Treasurer, Dutton Asbestos & Supply Co., San Francisco, Calif., October 29.

George L. Abbott, President & General Manager, Garlock Packing Co., Palmyra, N. Y., October 1.

F. E. Byrnes, Vice President & Secretary, The Ruberoid Co., New York City, October 31.

V. A. Spina, Treasurer, Scandinavia Belting Co., Newark, N. J., November 1.

A. M. Barranger, President, Acme Insulation Co., North Little Rock, Ark., November 2.

Ernest S. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisc., November 3.

Kozaburo Nozawa, President, Nozawa Asbestos Industrial Co., Ltd., Kobe, Japan, November 4.

Charles B. Purcell, President, Western Asbestos Co., San Francisco, Calif., November 4.

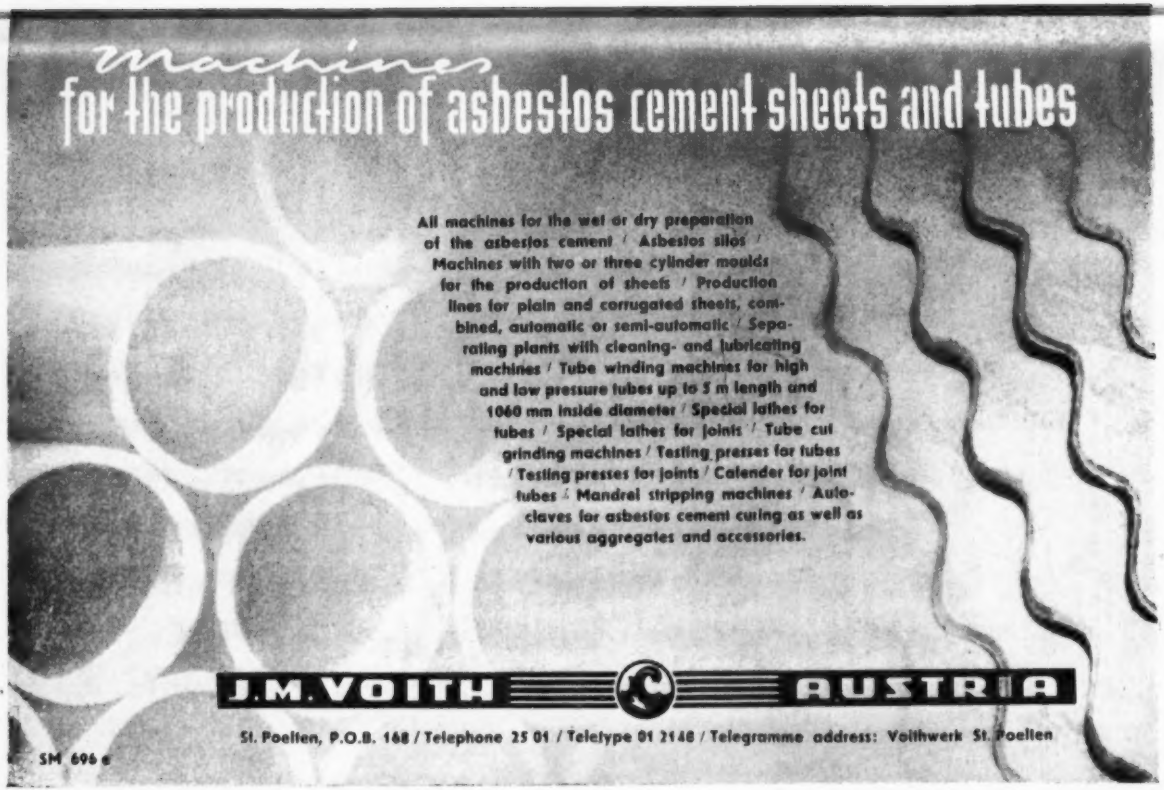
William P. Barry, General Manager, Smith & Kanzler, Corporation, Linden, N. J., November 5.

Howard W. Allen, Vice President, Johns-Manville Corporation, New York City, November 5.

Dirk Salomons, Director, Asbestcementindustrie, "AsbestonaN, V.", Amersfoort, Holland, November 5.

Charles W. Hanslip, President, Standco Brake Lining Co., Houston, Texas, November 8.

M. Nicolato, Vice President, Pacific Asbestos Cement Products Corp., San Bernardino, Calif., November 13.


machines
for the production of asbestos cement sheets and tubes
All machines for the wet or dry preparation of the asbestos cement / Asbestos silos / Machines with two or three cylinder moulds for the production of sheets / Production lines for plain and corrugated sheets, combined, automatic or semi-automatic / Separating plants with cleaning- and lubricating machines / Tube winding machines for high and low pressure tubes up to 5 m length and 1060 mm inside diameter / Special lathes for tubes / Special lathes for joints / Tube cut grinding machines / Testing presses for tubes / Testing presses for joints / Calender for joint tubes / Mandrel stripping machines / Autoclaves for asbestos cement curing as well as various aggregates and accessories.
J.M.VOITH
AUSTRIA
St. Poelten, P.O.B. 168 / Telephone 25 01 / Teletype 01 2148 / Telegramme address: Voithwerk St. Poelten
SM 696 e

G. A. Rentschler, Chairman of Executive Committee, The Philip Carey Mfg. Co., Cincinnati, Ohio, November 14.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

KEASBEY & MATTISON CO.

New Appointments

Yock Lio Lim, a native of the Fookien Province of China, has been named a junior development engineer in K & M's Research & Development Department.

Although born in the city of Amoy, on the mainland of China, Lim's education began in Manila, P. I., where he attended grammar school and high school. In 1955 he took his bachelor's degree in chemical engineering from the University of Santo Tomas, P. I. He came to the United States in 1955 at which time he entered Virginia Polytechnic Institute where he was awarded a master's degree in Ceramic Engineering in 1956. More recently, in 1958, he took his master's in chemical engineering from the University of Michigan.

At K & M, Yock Lio Lim will take an active part in the creation and development of the company's line of asbestos, magnesia and asphalt products.

Robert W. Betts has been named a product supervisor in the Quality Control Division of Keasbey & Mattison Company. Prior to joining the company he was a sales representative for the Hunter Spring Company.

THE FLINTKOTE COMPANY

New Appointments

The appointment of *Charles E. Dill* as General Sales Manager of the Tile-Tex Division of The Flintkote Company has been announced.

Mr. Dill formerly was Southern Division Sales Manager of the Tile-Tex Division, with headquarters in New Orleans, La. He will now make his headquarters in New York City.

The election of *James D. Moran* as assistant vice president of The Flintkote Company has been announced.

In his new capacity, Mr. Moran will serve as line assistant to *Wilson Harvey*, vice president and general manager of Flintkote's Pioneer (West Coast) Division with headquarters in Los Angeles.

Mr. Moran joined Flintkote in New York in 1950 as assistant to the vice president and secretary, handling corporate legal matters and serving as liaison between Flintkote and government offices on priorities and price controls during the Korean conflict.

In 1954, he was transferred to the Pioneer Division as staff assistant to the vice president and general manager and in 1956 he was named director of public and industrial relations.

Exporters of

RAW ASBESTOS

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C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000 — CABLE: SOTSEBSA

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ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N.Y.

J-M PROPOSES MERGER WITH L-O-F GLASS FIBERS CO.

Johns-Manville Corporation has proposed a merger with L-O-F Glass Fibers Company on the basis of 1 share of its common stock for 2½ shares of the glass company's common stock, it was announced by A. R. Fisher, Chairman and President of Johns-Manville, G. P. MacNichol, Jr., Chairman, and R. H. Barnard, President, of L-O-F Glass Fibers.

Believing that each company ideally supplements the other and that the exchange of shares will be in the interest of its stockholders, the Directors of L-O-F Glass Fibers will call a special meeting of its stockholders at the earliest practicable date to ratify the plan. Details of the proposed plan, which is intended to effect a non-taxable exchange of shares, will be announced later.

CELLACTITE & BRITISH URALITE LIMITED

Directors' Report

The Report of the Directors of the Cellactite & British Uralite Limited and its Subsidiary stated the turnover was higher than the previous year but the margin of profit was lower, yet this may nevertheless be regarded as satisfactory in view of increasing costs. The Consolidated Profit is £34,432 compared with £58,165 for the previous year.

By Special Resolution the name of the Company has been changed from Cellactite & British Uralite Limited to British Uralite Limited. This name is in fact the name with which the Company was founded fifty years ago, and the name Uralite is well associated in the minds of buyers of asbestos cement products with the Company.

UNITED STATES RUBBER CO.

Changes in Personnel

Thomas D. Ramsey has been appointed district sales manager in the Gastonia, N. C., area for the Naugatuck Chemical division, United States Rubber Co.

Mr. Ramsey, formerly a technical sales representative for the division in the Los Angeles area, will replace *Claude H. Allard*, who has been assigned to a production post at Naugatuck, Conn.

Lawrence H. Bruce has been appointed sales manager of latices for the Naugatuck Chemical division.

UNITED STATES GYPSUM

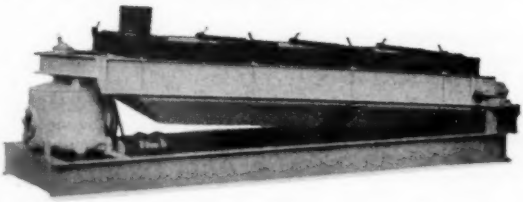
New Appointment

J. Charles Robinson has been named Area Marketing Manager of asbestos-cement products for United States Gypsum Company.

Mr. Robinson formerly was Commodity Advertising Manager with the company.

ROTEX® SCREENERS

GIVE PROFITABLE PRODUCTION!



ROTEX FEATURES		
	• Low head room	• No screen-blinding
	• Fast screen changes	• Dependable service
	• Dust-tite construction	• Rugged construction

The nearly level, gyratory motion, pioneered in ROTEX, conveys material rapidly over screen surfaces with minimum vertical vibration or hop. This stratifies the material by particle size, rapidly passing undersize particles through the mesh openings. The results are clean separations exacting accuracy, coupled with high capacity. Designed for the operator's convenience, ROTEX Screeners pay for themselves by the economies they effect.

TO MEET THE REQUIREMENTS OF THE ASBESTOS INDUSTRY: Fourteen models—one or two screening surfaces—quiet running counter balanced drive—heavy welded structural steel base.

REPRESENTATIVE TO THE ASBESTOS INDUSTRY
IN P. Q., CANADA: Lynn MacLeod Engineering Supplies, Limited, Thetford Mines, Quebec.

THE ORVILLE SIMPSON COMPANY

1222 KNOWLTON ST. · CINCINNATI 23, OHIO

ASBESTOS MINING INDUSTRY IN CANADA — 1957

A ten-page pamphlet under the above title has been issued recently by the Department of Trade and Commerce, Dominion of Statistics, Ottawa, Canada.

It contains various information and statistics — number of asbestos firms, number of employees, salaries and wages, shipment by grades, tonnage of rock mined and milled, fuel and electricity used, power equipment, taxes paid by the Asbestos Mining Industry, and other data of interest.

If interested write the above mentioned Department for Bulletin 6502—571—127 — price is 25c.

NEW APPOINTMENT AT CAREY

Paul D. Japp has been made a Vice President of The Philip Carey Mfg. Company of Cincinnati, Ohio.

Since joining Carey in February of this year, Mr. Japp has been Assistant Executive Vice President and manager of Sales Relations. He will now be responsible for the company's sales efforts on Preferred and National Accounts; Process Engineering, Architectural and Engineering firms; Government and Export. Prior to joining Carey, Mr. Japp spent 18 years with Pittsburgh Corning Corporation, Pittsburgh, Pa., where he served successively as District Manager, General Sales Manager and Vice President.

ASBESTOS-CEMENT PRODUCTS ASSOCIATION

Three Baltimore area builders have been honored with National Design Citations for outstanding use of Asbestos-Cement building products in their development homes. Builders include the Sanford Construction Company with its Glen Burnie Park Development, Yale Contractors, Inc. at Brinkleigh, and Jack Meyerhoff & Sons for Rollingwood.

The awards were made by the Asbestos-Cement Products Association of New York City. In making the awards, Chester Kelsey, Association Manager, pointed out that good design is becoming increasingly important in new home construction and that more builders are using the newest building products and materials such as those developed in recent months by the Asbestos-Cement industry to fit in with this design trend.

THURSTON OPENS NEW OFFICE & WAREHOUSE

C. E. Thurston & Sons, Inc., opened their new General Offices and Warehouse at 850 Tidewater Drive, Norfolk, Virginia on September 6, 1958

C. E. (Pete) Thurston, Jr., President of the company stated that the business was incorporated in 1946 under its present name, at which time a full stock of mill, marine, and industrial supplies was added to their insulation and refractory contracting business. The main office is in Norfolk, with two branches, one in Richmond and the other in Roanoke.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

NEW GROUP OF INVESTORS JOIN ADVOCATE MINES LIMITED

Premier J. R. Smallwood recently announced that a new group of investors has joined with Advocate Mines Limited, of Toronto, to develop an asbestos fibre ore body in northern Newfoundland, thus bringing a new industry to this Atlantic Province.

M. J. Boylen, President of Advocate Mines Limited, has advised that at least $1,000,000 will be spent at the outset to explore and develop the ore body. These funds will be made available by a group which will include Patino Limited of Canada, Amet Corporation Inc., Financiere Belge de L'Asbestos — Ciment S. A. and Canadian Johns-Manville Company, Ltd.

Canadian Johns-Manville, which operates asbestos mines in Quebec and northern Ontario, has contracted to manage and operate the Newfoundland project with the assistance of the technical and management skills of its associates.

It was estimated that the ore body will be ready for commercial production in time to meet an expected world-wide increase in demand for asbestos fibre, exceeding present Canadian production capacity, about 3½ years from now.

Under present plans exploration and development work will take about two years, while construction of a mill and other facilities will require about a year and a half. The mill will have an initial capacity of 3,000 tons of asbestos ore a day. It is planned to ship the asbestos fibre from the Baie Verte area in ocean-going cargo ships to world-wide markets.

The asbestos ore body is one of several located in a 1500 square mile area in the Baie Verte region of the Burlington Peninsula. Mineral rights to this area are held by Advocate Mines Limited through a concession granted by the Newfoundland government in 1955.

The asbestos fibre in this deposit is of the chrysotile type. Tests indicate that the fibre is an excellent grade for use in the manufacture of asbestos-cement products.

FOR SALE

Asbestos & Insulation Surplus Materials
Foreign & Domestic Markets Solicited

All Inquiries Invited

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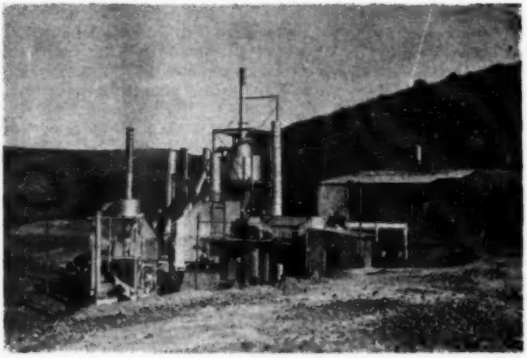
61 Broadway

New York 6, New York

Tel. Digby 4-6580



View of Blue Asbestos Reducing Mill

ASBESTOS FIBRES

Chrysotiles, Blues, Amosites

Agent in the United States for

S. A. ASBESTOS TRADING (PTY.) LTD.

KEASBEY & MATTISON COMPANY ANNOUNCES EXECUTIVE CHANGES

Several management changes have been announced by Robert R. Porter, president, Keasbey & Mattison Company.

Edward J. Buczkowski, formerly Director of Manufacturing, has been elected Vice President—Promotion. He joined K & M in 1926 as a quality control engineer. In 1944, he was appointed assistant to the Vice President of Manufacturing and in 1950 became Director of Manufacturing, and was elected to the board of directors. He is the holder of numerous product and process patents as well as a B.S. in chemical engineering from Purdue University.

Robert A. Schneider, formerly Technical Director, has been elected Vice President—Engineering. Mr. Schneider is a native of Switzerland and received his college training in that country. He came to K & M in 1936 to form an engineering department in the company's asbestos-cement products division. He was made Chief Engineer of the pipe plant in 1940. In 1953 he was elected to the board of directors and named Technical Director. An inventor of asbestos-cement machines and processes, he holds several patents.

George Barge, Treasurer, has been elected to the board of directors and promoted to the post of chief financial officer, succeeding W. L. Spielberger, Director of Finance, who is retiring after 21 years with the company. He joined K & M in 1934 in its St. Louis, Mo., plant. In 1947 he was transferred to Ambler as assistant to the Treasurer. He was appointed Treasurer in 1951.

Albert F. Humlhanz has been elected Assistant Treasurer and appointed Controller. He has been previously serving as assistant to the Treasurer. He joined K & M in 1948 as an accountant and was appointed assistant to the Treasurer in 1953.

FLINTKOTE TO ACQUIRE ORANGEBURG MFG. CO

The Flintkote Company has arranged to purchase all of the assets and the business of Orangeburg Manufacturing Co., Inc., it was announced jointly by I. J. Harvey, Jr., Flintkote chairman and chief executive officer and H. J. Robertson, Orangeburg president.

Flintkote's newest acquisition, already approved by the boards of both companies but subject to approval of stockholders, calls for the exchange of 132,416 shares of a new class of Flintkote stock to be designated $4.50 Series A Convertible 2nd Preferred with a par value of $100 for the Orangeburg business. The new stock would be convertible into Flintkote common on the basis of $56 per common share, subject to anti-dilution provisions.

Orangeburg Manufacturing Co., incorporated in New York in 1893 as The Fibre Conduit Co., produces bituminized fibre sewer and drain pipe and fittings, electric conduits for underground power distribution systems and underfloor duct wiring systems for office buildings, industrial structures and other type construction.

Now in Operation: New Independent Source of Asbestos. Lake Asbestos of Quebec, Ltd. will supply 100,000 tons of high-quality chrysotile asbestos fibre annually. If you need a new dependable source for high grade asbestos, write to Lake Asbestos of Quebec, Ltd., 120 Broadway, N.Y. 5, N.Y.

North American Sales Agents:

Baker & Collinson
Detroit 12
Michigan

E. M. Walls Company
San Francisco 11
California

A. C. Mueller Co., Inc.
Cleveland 14, Ohio

Van Horn, Metz & Co., Inc.
Conshohocken
Pennsylvania

E. B. Taylor Company
Los Angeles 13
California

D. H. Litter Co., Inc.
New York and Allston,
(Boston) Mass.

Federated Metals
Houston 29
Texas

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

FIBREBOARD PAPER PRODUCTS CORPORATION

Appointment of *G. V. Mostyn* as district manager, Rocky Mountain District, "Pabco" Building Materials Division of Fibreboard Paper Products Corp. was recently announced.

Mr. Mostyn's lengthy sales experience with Fibreboard includes service with several sales territories of the Building Materials Division, giving him an excellent background for his new responsibilities as sales manager.

He will headquarter at the Rocky Mountain District offices in Denver, Colorado.

CURRENT RANGE OF PRICE

As of October 10, 1958

ARIZONA—	Per Ton of 2,000 lbs., f.o.b Globe, Arizona	
No. 1 Crude (soft)	$1,500.00 to	$2,000.00
No. 2 Crude (soft)	1,000.00 to	1,350.00
No. 3 Crude (soft)	400.00 to	675.00
Filter Fibre (soft)	250.00 to	475.00
No. 1 Crude (semi-soft)	1,200.00 to	1,500.00
No. 2 Crude (semi-soft)	900.00	
No. 3 Crude (semi-soft)	400.00	

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency	
Group No. 1 (Crude No. 1)	$1,475.00 to	$1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00 to	1,200.00
Group No. 3 (Spinning Fibre)	370.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	.....	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Fitlering	$ 370.00 to	$ 428.00
Group No. 4 (Shingle Fibre)	181.00 to	200.00
Group No. 5 (Paper Fibre)	120.00 to	152.00
Group No. 6 (Waste, Stucco or Plaster)		86.00
Group No. 7 (Refuse or Shorts)	41.00 to	75.00

MOUNTBRIDGE EXPORTERS

(Pty) Ltd.

Chrysotiles

Crocidolites

Amosite

STOLTZBURG MINE

BARBERTON MINE

Transreef House—66 Marshall Street
P. O. Box 4421
Johannesburg — Union of South Africa

ROCKBESTOS PRODUCTS CORPORATION

John F. S. Abbott has been appointed director of research and development of Rockbestos Products Corporation.

At the same time, Rockbestos Works Manager, *Alexander S. Basil* announced the formation of a new department at Rockbestos to be called Production Engineering. It will be under the direction of *James F. McClelland, Jr.*, as manager assisted by *David Chaffin*.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		September 1958		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	40¼	43¾	42½
Armst. Ck. (Com)	1	30	31⅞	30⅜
Armst. Ck. (Pfd)	np	83	85¼	85¼
Asbestos Corp. (Com)	np	29¾	33½	32
Carey (Com)	10	27¼	30⅝	30⅛
Cassiar Asb. Corp.	np	$7.60	$8.00	$7.90
Celotex (Com)	1	33¼	35⅜	34¾
Celotex (Pfd)	20	17¾	18⅜	18⅜
Certainteed (Com)	1	11¼	12⅞	12⅛
Fibreboard Paper Prod. (Com)	np	35¼	35⅛	37¼
Fibreboard Paper Prod. (Pfd)	100	120	130½	124
Flintkote (Com)	5	46⅛	50¾	49⅛
Flintkote (Pfd)	np	92	92	92
Johns-Manville (Com)	5	44½	46¼	44½
Natl. Gypsum (Com)	1	55¼	58¾	55¾
Natl. Gypsum (Pfd)	np	90½	92	92
Ray-Man (Com)	1	52¼	54¼	52½
Ruberoid (Com)	1	38¾	40⅛	38½
Thermoid (Com)	1	11½	13⅜	12
Thermoid (Pfd)	50	55⅛	55⅛	55⅛
Union Asb. & Rub. (Com)	5	7⅞	9⅞	9⅞
United Asb. (Com)	1	$5.75	$6.30	$6.00
U.S. Gypsum (Com)	4	84½	90	89¾
U.S. Gypsum (Pfd)	100	153	165½	155
U.S. Rubber (Com)	5	40¼	42¾	41
U.S. Rubber (Pfd)	100	140½	143½	142¼

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

A PHOTOGRAPHIC COMPETITION

A novel kind of competition is being sponsored jointly by the Swiss photographic magazine CAMERA and INTERNATIONAL ASBESTOS-CEMENT REVIEW, a quarterly with a universal circulation of near 50,000 copies also edited and printed in Switzerland. Architects and photographers—and, for that matter, the general public are asked to submit photographs of high quality of recent buildings in the construction of which asbestos-cement products were used. As it is more than likely that participants from outside the building industry do not know what asbestos-cement is and where it is to be found, the organizers are issuing a prospectus which gives the conditions of the competition together with a brief survey of architectural applications of asbestos-cement.

Apart from the general aim of the competition; to promote architectural photography in general and the co-operation between architects and photographers in particular, the competition is interesting on two other counts. An unusual jury has been assembled composed of three photographers with an international reputation: Karel Blazer of Amsterdam, Hans Finsler of Zurich, Franz Hubmann of Vienna, and three well-known architects: Vittorio Gregotti of Milan, F. M. Cadbury-Brown of London and Gunther Wilhelm of Stuttgart. Also among the adjudicators is Monsieur Ro Martinez, Paris, editor of CAMERA and organizer of the Venice photographic biennale. One other feature, not to be overlooked, are the very generous prizes offered by the organizers. First prize is a Swissair ticket Zurich—New York return, the prize money amounts to Fr. Swiss 13,000 (about £1100).

A prospectus for this competition, which opens at the beginning of August and terminates the end of March next year, can be obtained, free of charge, by writing to CAMERA, C. J. Bucher Publishers Ltd., Lucerne, Switzerland.

Drastic reduction of heat loss with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

THIS AND THAT

"Fibrforms" the corrugated void boxes designed for poured concrete foundations and flooring have entered the field of home construction with a unique application in a home built recently on the shores of the Belvedere Lagoon on San Francisco Bay.

A building materials product of Fibreboard Paper Products Corporation, "Fibrforms" have enjoyed wide use in industrial and public building construction, but their incorporation in the foundations of single units is new.

Their Belvedere application was in the "floating foundation" of a house built on fill land adjacent to a lagoon made popular in recent years as a location for quality suburban homes.

"Getting on—Safely," an off-the-job pamphlet aimed at making life safer for oldsters, has been published by the National Safety Council.

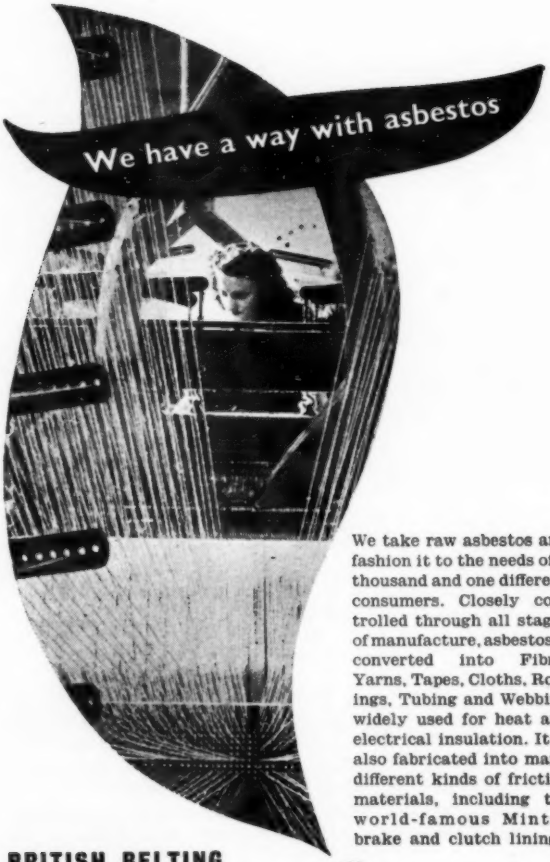
The illustrated publication comes with an insert sheet that gives hints to the adult who has responsibility for the care and safety of an older person.

Further information on "Getting on—Safely" — which has room for an imprint of a firm name — and information on quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago, 11, Ill.

The National Safety Council has published an accordion-fold pamphlet, "Don't Be Alarmed", giving the latest information and advice about fires.

Fire, the multi-colored pamphlet points out, is one of industry's deadliest foes. Each year, fire costs industry countless thousands of dollars. It takes thousands of lives.

Further information on "Don't Be Alarmed", and quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.



We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

Complementing its line of asbestos-cement building sewer fittings, the PIPE DIVISION of Keasbey & Mattison Company, Ambler, Pa., has announced the introduction of two additional fittings; a Running Trap with Hand Hole and a "Double WYE". Both offer the high flow characteristics and tight joints associated with asbestos-cement sewer pipe. The use of K & M's Two-Step coupling also eliminates the need for pouring joints as well as assuring easier positioning and assembly.

These fittings are available in a range of diameters. Additional information is available by writing the Keasbey & Mattison Company, Ambler, Pa.

A new system of pitched roofing and side-cladding is announced by the U.A.M. Group. It incorporates the Universal "Fort" sheet, a new asbestos-cement profile designed in ¼ in. thickness to span roof purlins up to 5 ft. 6 in. centres instead of the usual 4 ft. 6 in. It offers insulated construction, a full range of fitments and Unilux "Fort" translucent sheets for natural lighting.

Details of Fort roofing and cladding are given in the latest issue of U.A.M. Group Information (No. 5, 1958), pending the production of a full technical leaflet. Copies are available from the U.A.M. Group Advisory Service, Tolpits, Watford, Herts, England.

A symbol was recently adopted by the Asbestos Textile Institute and will appear on product labels of member companies. It consists of a black field with the flame and the word "Member" in red. Founded in 1944, the aims of the Institute are to assemble and disseminate technical information and, to improve quality, equipment, and manufacturing processes to provide maximum value to the consumer.

Members are: American Asbestos Textile Corp., Johns-Manville Corp., Keasbey & Mattison Co., Raybestos-Manhattan Inc., Southern Asbestos Co., and Tallman-McCluskey Fabrics Co.

R/M—
PIONEER IN ASBESTOS

Raybestos-Manhattan, Inc., holds a firm position among the leaders in the asbestos industry as a pioneer in developing new uses and markets for asbestos, and is a prime producer of asbestos products ranging from lamp wicks to missile fins. Call on R/M for any asbestos products.

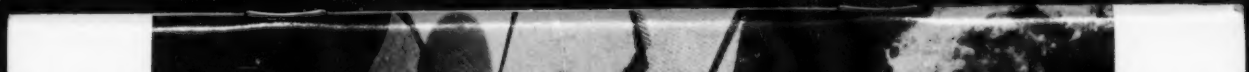
RAYBESTOS-MANHATTAN, INC.

ASBESTOS TEXTILE DIVISION, Manheim, Pa.

R M

FACTORIES: Manheim, Pa.; Bridgeport, Conn.; Paramount, Calif.; No. Charleston, S.C.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada.

RAYBESTOS-MANHATTAN, INC., Asbestos Textiles • Laundry Pads and Covers • Engineered Plastics • Mechanical Packings • Abrasive and Diamond Wheels • Brake Linings • Brake Blocks • Clutch Facings • Industrial Rubber • Rubber Covered Equipment • Sintered Metal Products • Industrial Adhesives • Bowling Balls.

SOUTHERN ASBESTOS — TEXTILES

SOUTHERN ASBESTOS COMPANY, CHARLOTTE 1, N. C.